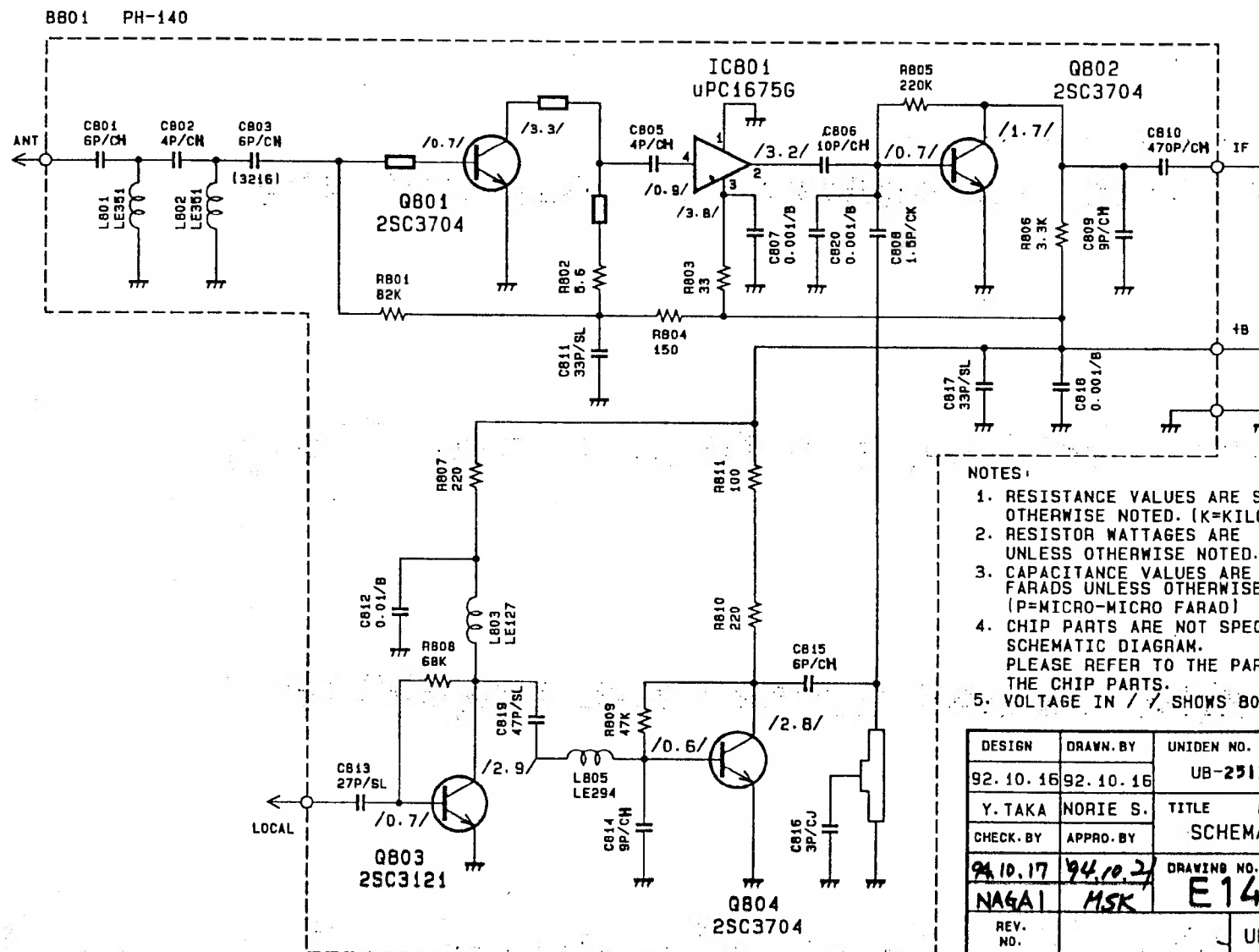
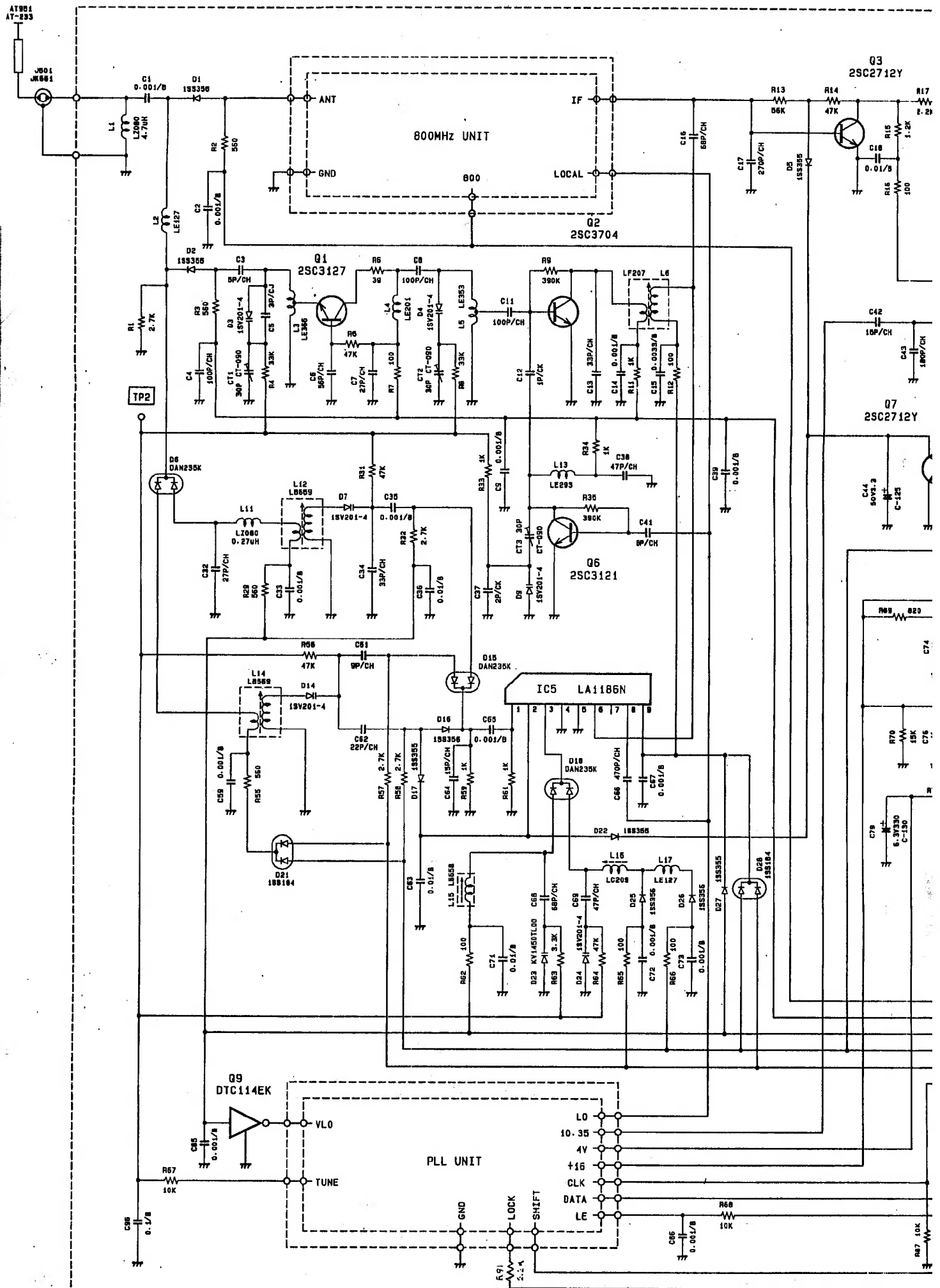


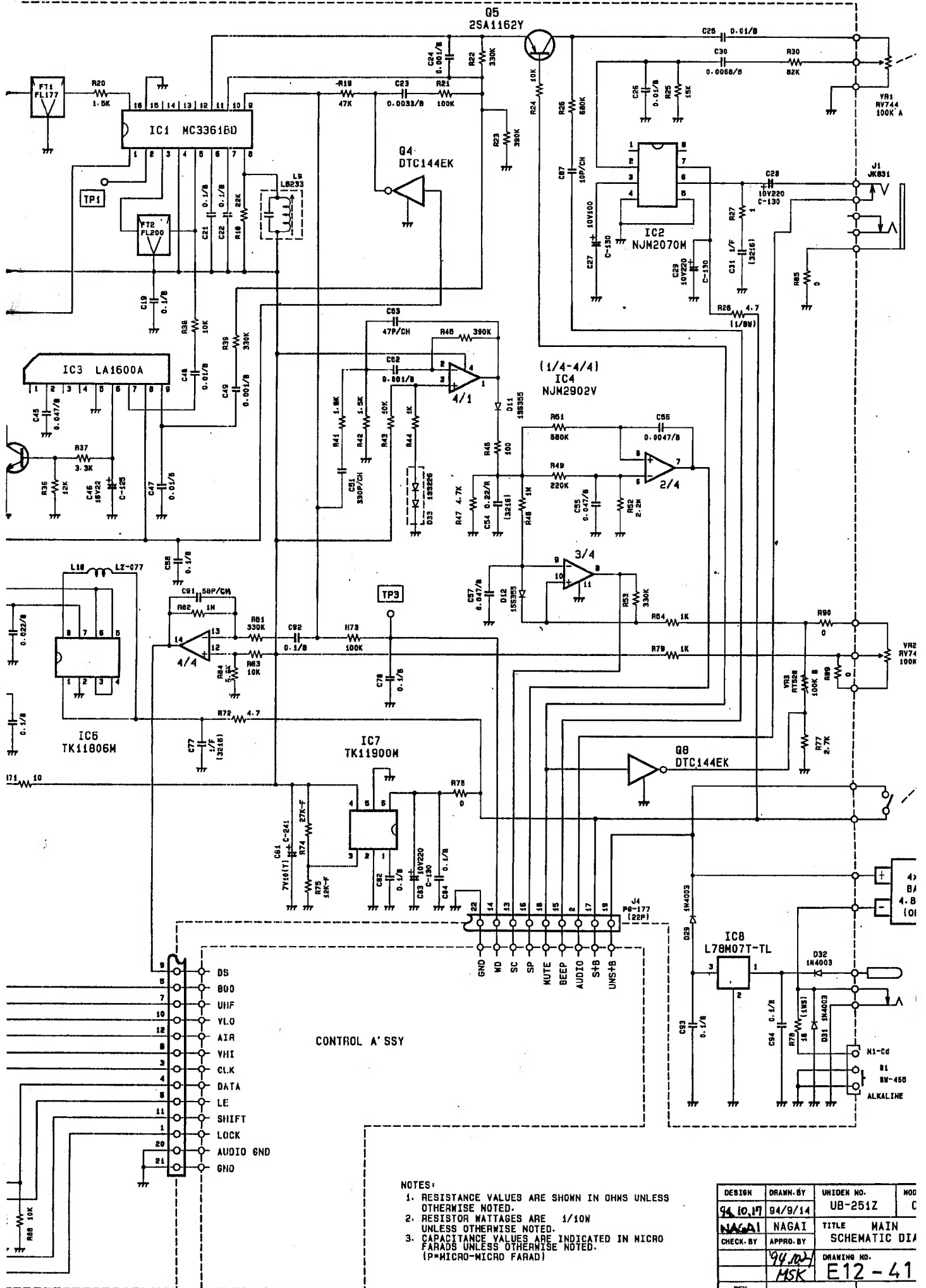
NOTES:

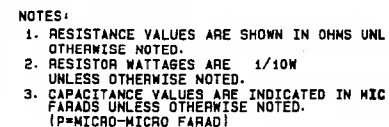
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/16W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
4. CHIP PARTS ARE NOT SPECIFIED IN THIS SCHEMATIC DIAGRAM. PLEASE REFER TO THE PARTS LIST FOR THE CHIP PARTS.
5. VOLTAGE IN () SHOWS UHF BAND CONDITION.
6. VOLTAGE IN () SHOWS VHF LOW BAND CONDITION.
7. VOLTAGE IN NO MARK SHOWS VHF HIGH BAND CONDITION.

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
14.10.17	94/7/22	UB-251Z	CON213
CHECK BY	APPROV BY	TITLE PLL PCB	
		SCHEMATIC DIAGRAM	
		DRAWING NO.	
		E13-4155	
REV. NO.		UNIDEN CORP.	



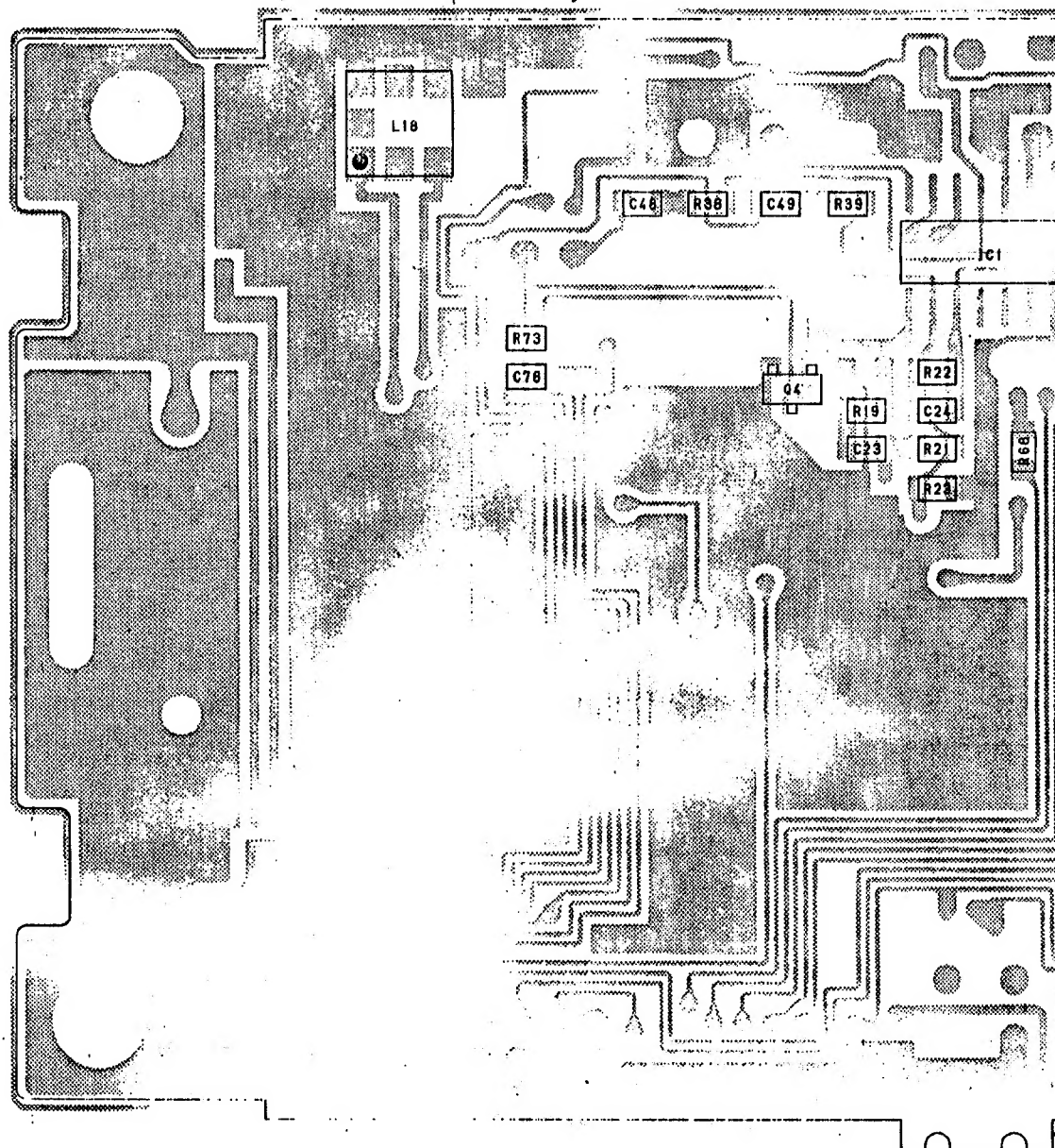






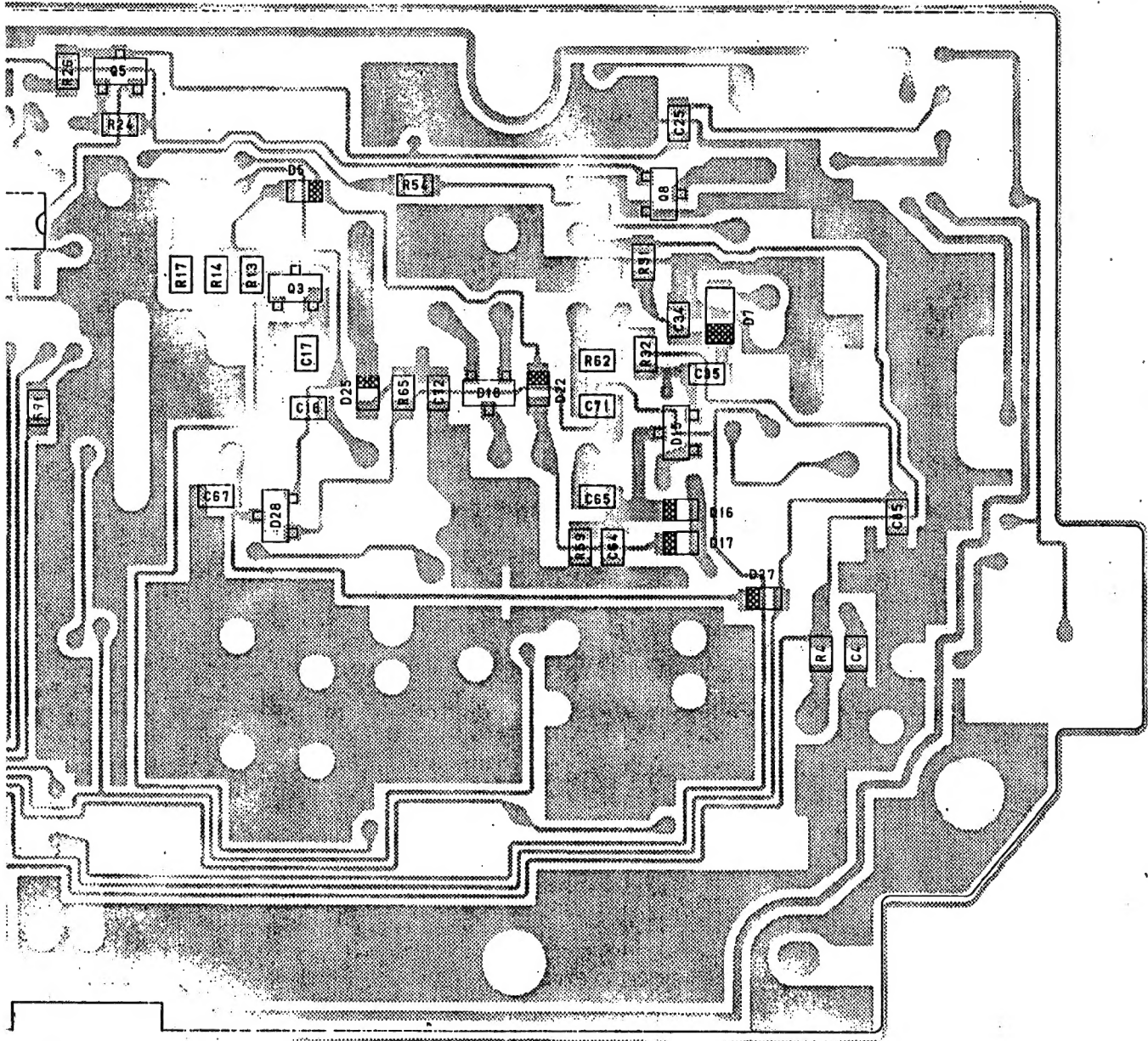
DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
94.10.17	94/R/14	UB-251Z	COM213
NAGAI	NAGAI	TITLE KEY PCB SCHEMATIC DIAGRAM	
CHECK BY	APPROV BY		
	94.10.2	DRAWING NO.	
	MSK	E13-4156	
REV. NO.	UNIDEN CORP.		

B001 (TOP VIEW)



Q3	2SC2712-Y	D5	1S5355	C4	100P/CH	C71	
Q4	DIC144EK	D7	1SY201-4	C16	68P/CH	C72	
Q5	2SA1162-Y	D15	DAN235K	C17	270P/CH	C78	
Q8	DIC144EK	D16	1S5356	C23	0.0033/B	C85	
		D17	1S5355	C24	0.001/B		
		D18	DAN235K	C25	0.01/B		
		D22	1S5355	C34	33P/CH		
		D25	1S5356	C35	0.001/B		
		D27	1S5355	C48	0.01/B		
		D28	1S5184	C49	0.001/B		
				C64	15P/CH		
				C65	0.001/B		
				C67	0.001/B		
IC1	MC3361BD						
L18	LZ-077						

scn/UB251ZPH187AA±C



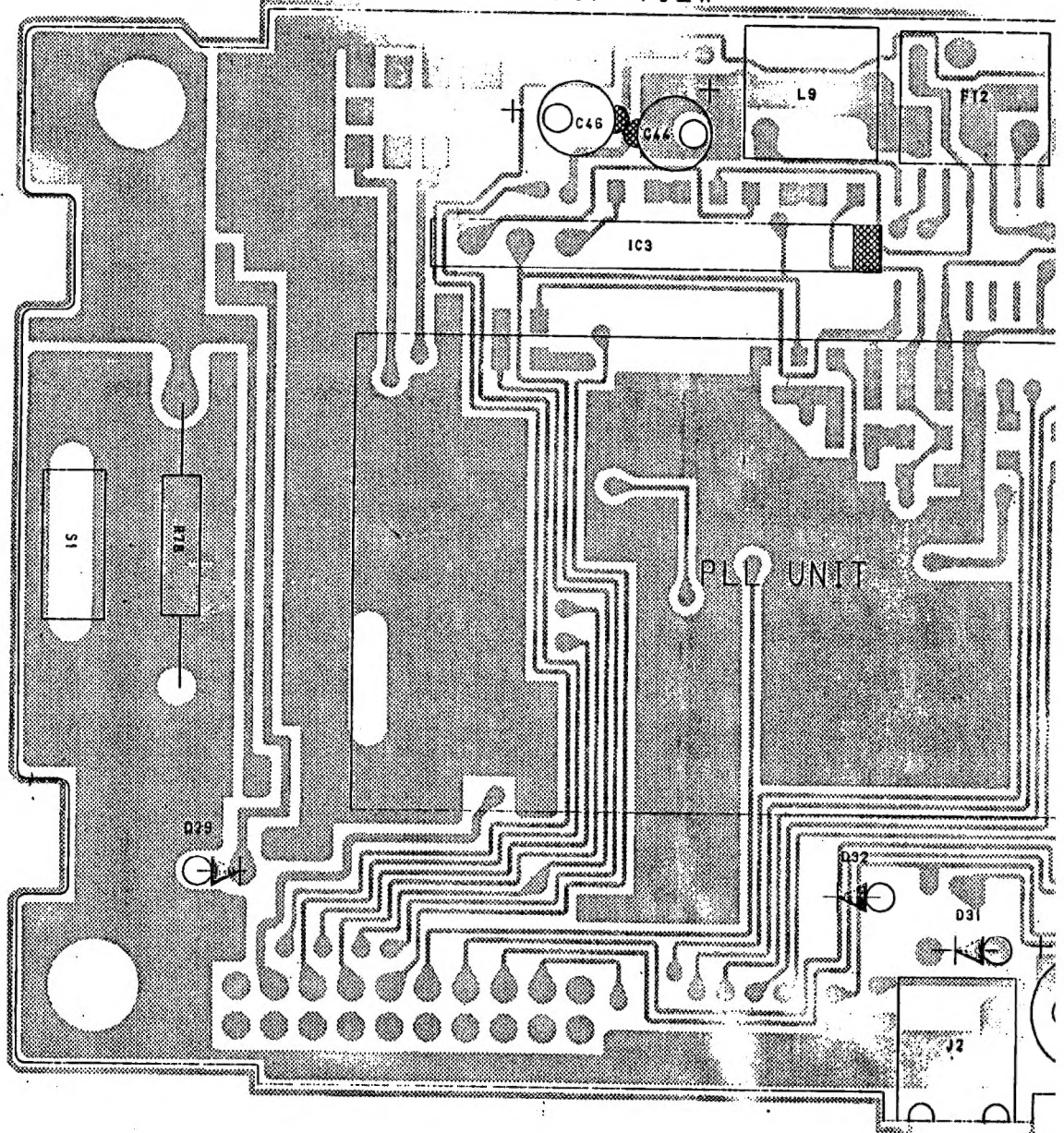
0.01/B	R4	33K	R39	330K
0.001/B	R13	56K	R54	1K
0.1/B	R14	47K	R59	1K
0.001/B	R17	2.2K	R62	100
	R19	47K	R65	100
	R21	100K	R68	10K
	R22	330K	R73	100K
	R23	390K	R71	2.2K
	R24	10K		
	R26	680K		
	R31	47K		
	R32	2.7K		
	R38	10K		

NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED, (K-KILO OHM, M-MEG OHM)
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED, (P-MICRO-MICRO FARAD)

DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
94.9.20	94.9.20	UB-251Z	COM213
NAGAI	NAGAI	TITLE	MAIN PCB
CHECK.BY	APPRO.BY	PARTS ASS'Y	TOP VIEW
	94.10.2	DRAWING NO.	
	MSK	E22-11270	
REV. NO.		UNIDEN CORP.	

*B001 PH-187AA (1/2) TOP VIEW



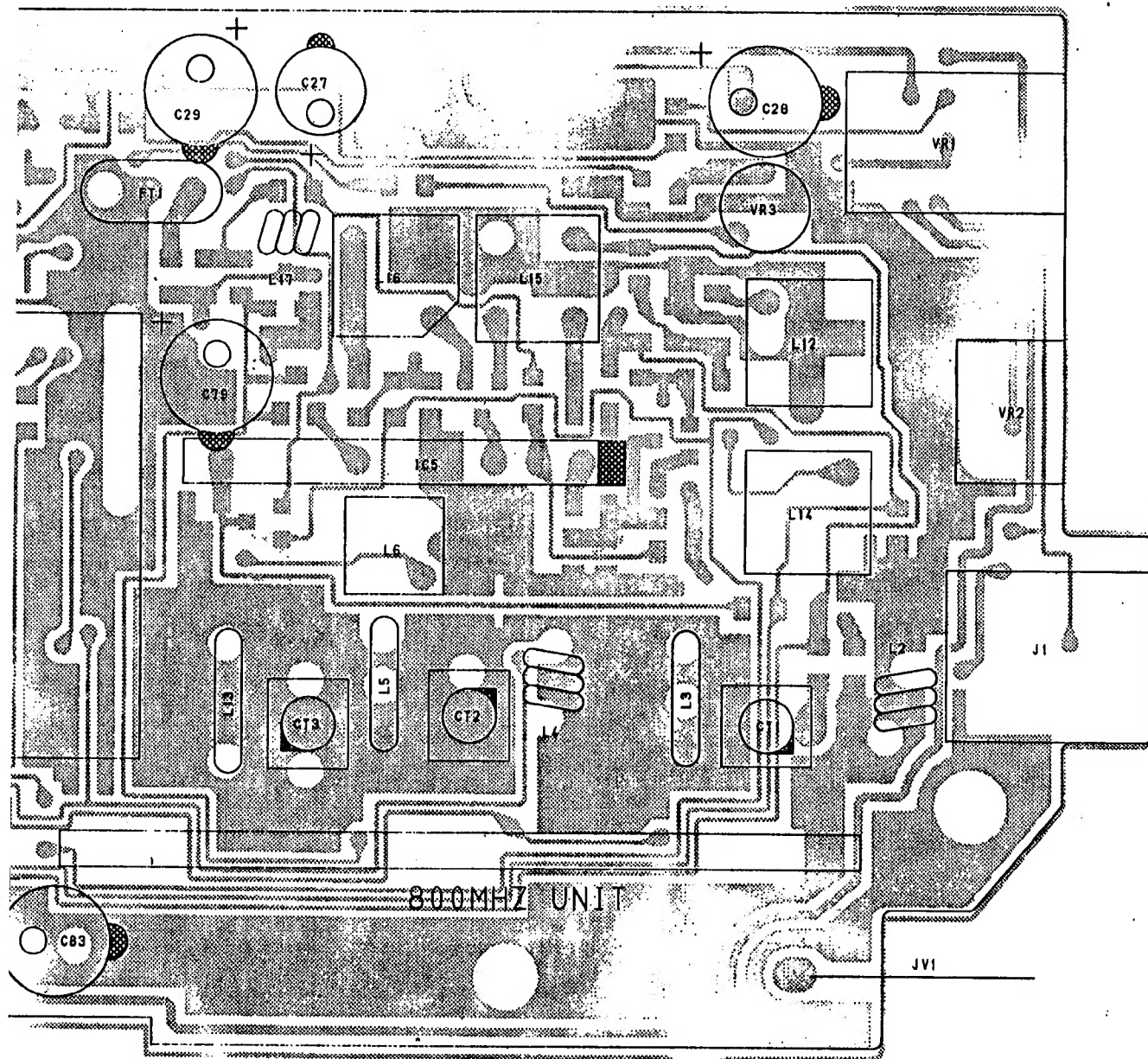
J1	JK-831
J2	JK-285
JVI	12.5MH
S1	SW-465

CT1	CT-090 30PF
CT2	CT-090 30PF
CT3	CT-090 30PF
FT1	FL-177
FT2	FL-200

VR1	RV-744 100KA
VR2	RV-746 100KC
VR3	RT-528 100KB
IC3	LA1600A
IC5	LA1186N

C27	10V100 C-130
C28	10V220 C-130
C29	10V220 C-130
C44	50V3.3 C-125
C46	16V22 C-125
C79	6.3V330 C-130
C83	10V220 C-130
D29	1N4003
D31	1N4003
D32	1N4003
R7B	18 1W5 J

L2	L1
L3	L1
L4	L1
L5	L1
L6	L1
L9	L1
L12	L1
L13	L1
L14	L1
L15	L1
L16	L1
L17	L1



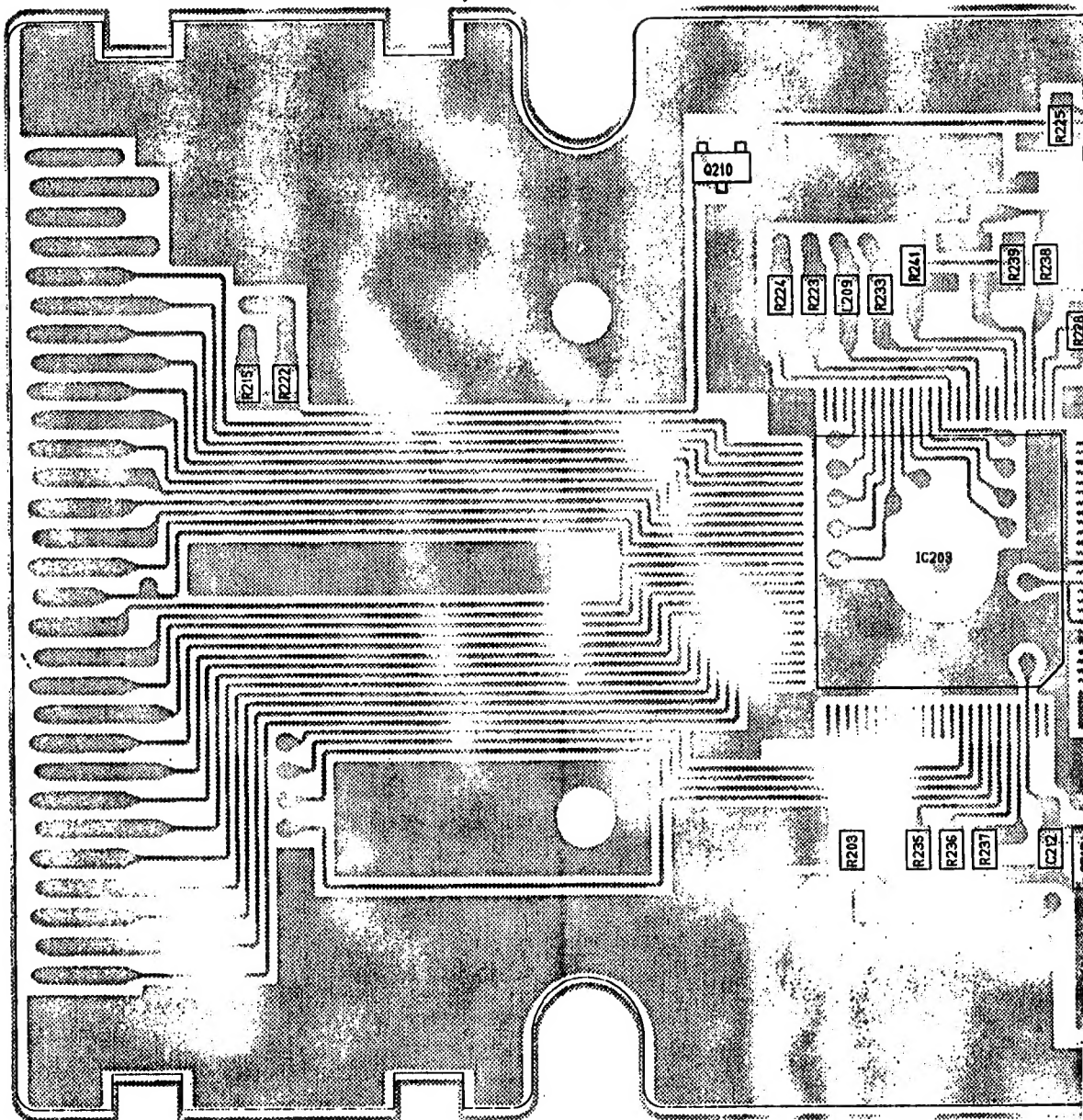
LE-127
LE-366
LE-201
LE-353
LF-207
LB-233
LB-659
LE-293
LB-569
LB-658
LC-209
LE-127

NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED, (K=KILO OHM, M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED,
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED, (P=MICRO-MICRO FARAD)

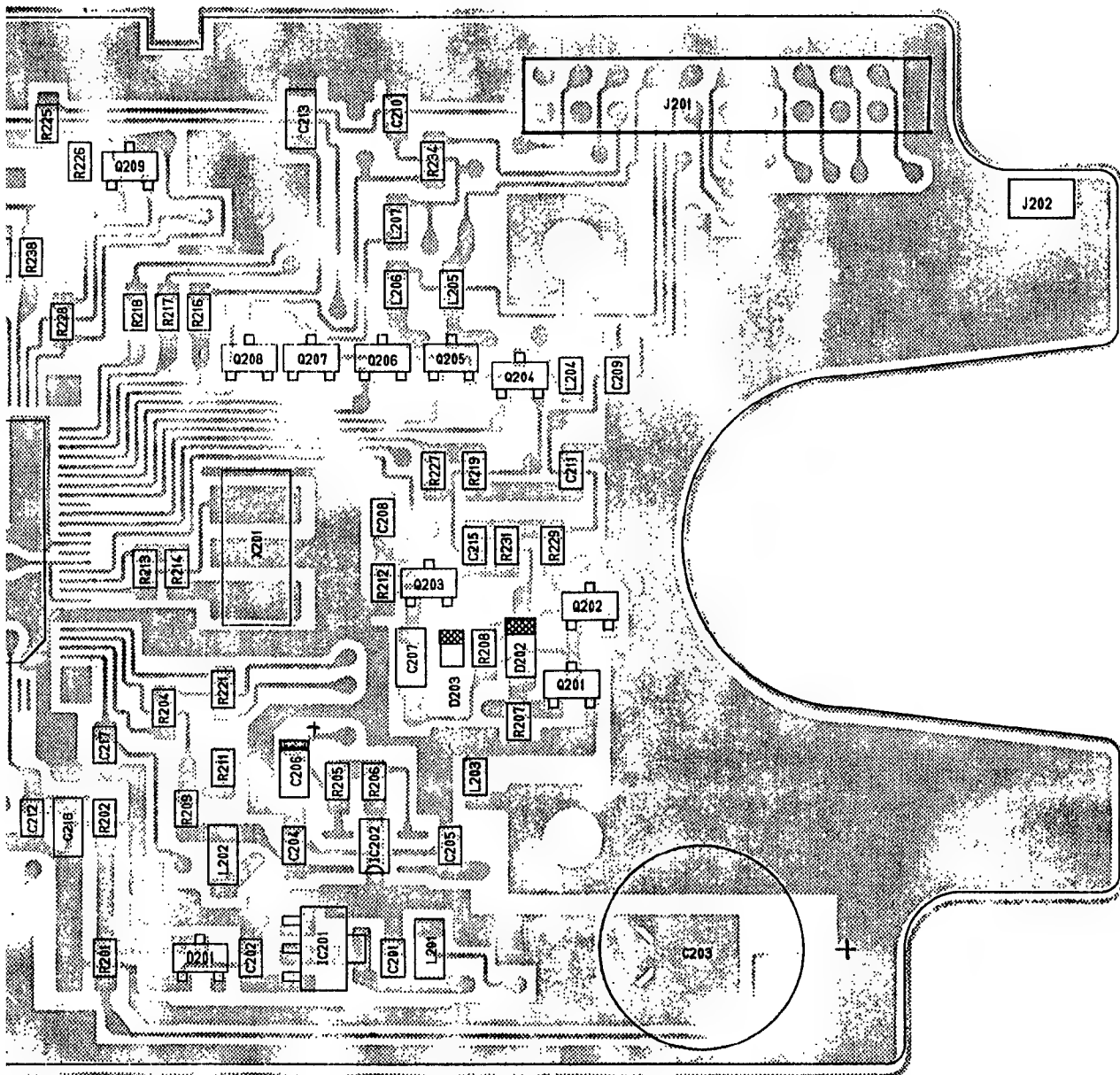
DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
94.9.20	94.9.20	UB-251Z	COM213
NAGAI	NAGAI	TITLE MAIN PCB	
CHECK.BY	APPRO.BY	PARTS ASS'Y TOP VIEW	
	94.10.2	DRAWING NO.	
	AK	E22-11271	
REV. NO.		UNIDEN CORP.	

B201 PH-187AA (2/2) (TOP VIEW)



IC201	RHSRA43AA
IC202	TK11900M
IC203	UC-1642
	HD404829
Q201	DTA114EK
Q202	DTA114YK
Q203	DTA114YK
Q204	DTA114YK
Q205	DTA114YK
Q206	DTA114YK
Q207	DTA114YK
Q208	DTA114YK
Q209	2SA1162-Y
Q210	DTA114EK
X201	FK-027 2MHz

L201	LZ-087 1.6UH
L202	LZ-087 1.6UH
L203	LZ-080 4.7UH
L204	LZ-080 4.7UH
L205	LZ-080 4.7UH
L206	LZ-080 4.7UH
L207	LZ-080 4.7UH
L209	LZ-080 4.7UH
D201	HSMB8AS
D202	HZX28LL TR
D203	ISS355
J201	PG-172 2 I
J202	JK-775



C201	0.22/F
C202	0.22/F
C203	0.047F 5.5V C-266
C204	0.22/F
C205	0.1/B
C206	7V10[T] C-241
C207	1/F [3216]
C208	0.047/B
C209	0.001/B
C210	0.1/B
C211	0.001/B
C212	0.001/B
C213	0.001/B [3216]
C215	0.001/B
C217	0.22/F
C218	1/F [3216]

R201	47
R202	10
R203	10K
R204	1K
R205	27K-F
R206	12K-F
R207	1K
R208	10K
R209	22K-F
R211	10K-F
R212	100K
R213	1M
R214	5.6K
R215	150
R216	1K
R217	1K
R218	1K
R219	1K
R221	1K
R222	1K

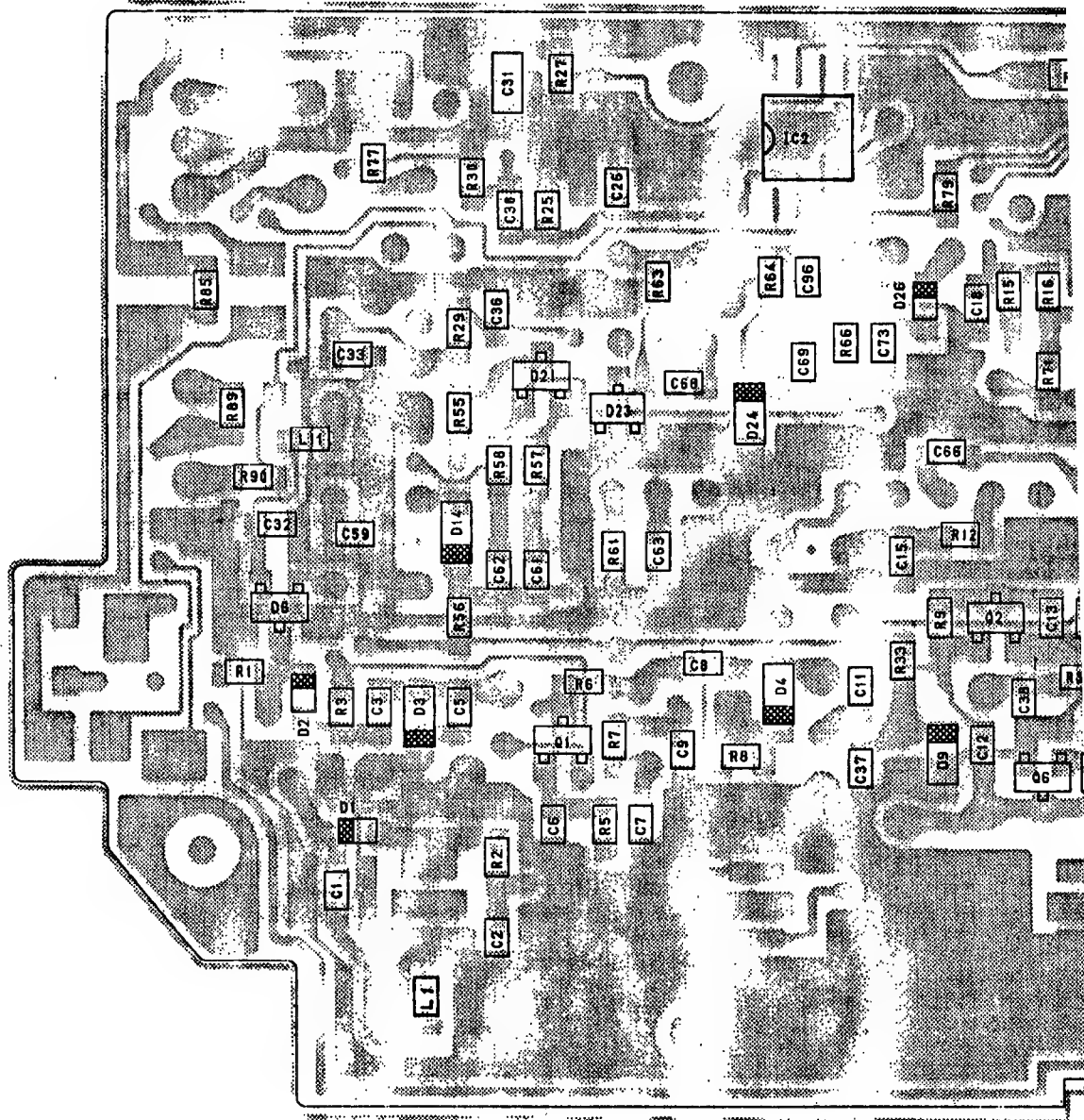
R223	1K
R224	1K
R225	33K
R226	100K
R227	10K
R228	10K
R229	1K
R231	22K
R233	1K
R234	0
R235	10K
R236	10K
R237	10K
R238	100K
R239	100K
R241	100K

NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED, (K=KILO OHM, M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED, (P=MICRO-MICRO FARAD)

DESIGN BY	DRAWN BY	UNIDEN NO.	MODEL NO.
94,9,27	94,9,27	UB-251Z	COM213
NAGA1	NAGA1	TITLE MICOM PCB	
CHECK BY	APPRO BY	PARTS ASS'Y TOP VIEW	
	44,10,3	DRAWING NO.	
	MSK	E 22-11268	
REV. NO.		UNIDEN CORP.	

B001 (BOTTOM VIEW)



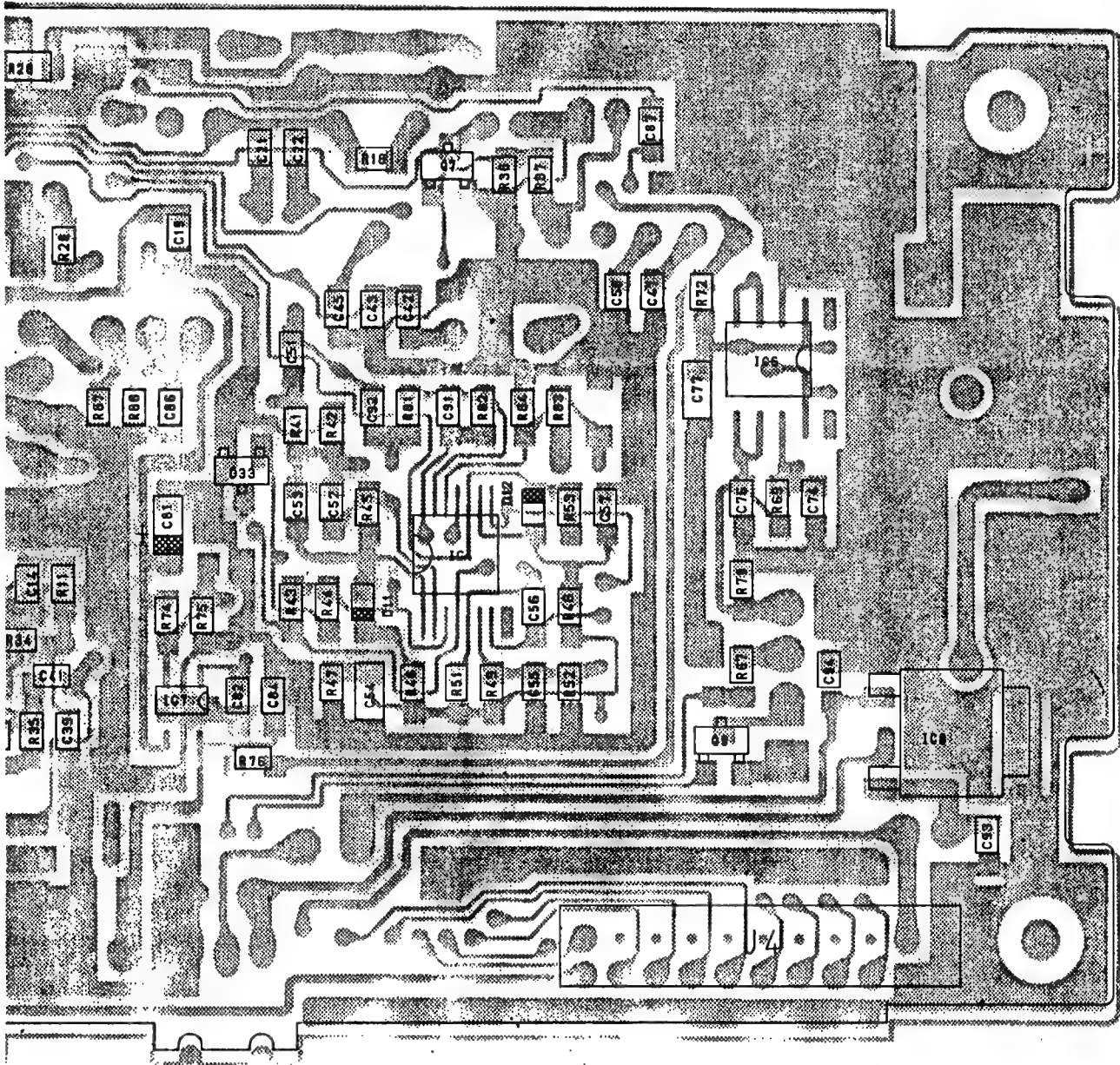
R1	2.7K
R2	560
R3	560
R5	47K
R6	39
R7	100
R8	33K
R9	390K
R11	1K
R12	100
R15	1.2K
R16	100
R18	22K
R20	1.5K
R25	15K
R27	1
R28	4.7(1/8W)
R29	560
R30	82K
R33	1K
R34	1K
R35	390K
R36	12K
R37	3.3K
R41	1.8K
R42	1.5K

R43	10K
R44	1K
R45	390K
R46	100
R47	4.7K
R48	1M
R49	220K
R51	880K
R52	2.2M
R53	330K
R55	560
R56	47K
R57	2.7K
R58	2.7K
R61	1K
R63	3.3K
R64	47K
R66	100
R67	10K
R69	820
R70	15K
R71	10
R72	4.7
R74	27K-F
R75	12K-F
R76	0

R77	2.7K
R79	1K
R81	330K
R82	1M
R83	10K
R84	5.6K
R85	0
R87	10K
R88	10K
R89	0
R90	0

C1	0.001/B
C2	0.001/B
C3	5P/CH
C5	3P/CJ
C6	56P/CH
C7	27P/CH
C8	100P/CH
C9	0.001/B
C11	100P/CH
C12	1P/CK
C13	33P/CH
C14	0.001/B
C15	0.0033/B
C18	0.01/B
C19	0.1/B
C21	0.1/B
C22	0.1/B
C26	0.01/B
C30	0.0068/B
C31	1/F(3216)
C32	27P/CH
C33	0.001/B
C36	0.01/B
C37	2P/CK
C38	47P/CH
C39	0.001/B

C41	
C42	
C43	
C45	
C47	
C51	
C52	
C53	
C54	
C55	
C56	
C57	
C58	
C59	
C61	
C62	
C63	
C66	
C68	
C69	
C73	
C74	
C76	
C77	
C81	
C82	



41	8P/CH
42	15P/CH
43	100P/CH
45	0.047/B
47	0.01/B
51	330P/CH
52	0.001/B
53	47P/CH
54	0.22/R(3216)
55	0.047/B
56	0.0047/B
57	0.047/B
58	0.1/B
59	0.001/B
61	9P/CH
62	22P/CH
63	0.01/B
66	470P/CH
68	68P/CH
69	47P/CH
73	0.001/B
74	0.022/B
76	0.1/B
77	1/F(3216)
81	7V10(1:1:2)
82	0.1/B

C84	0.1/B
C86	0.001/B
C87	10P/CH
C91	68P/CH
C92	0.1/B
C93	0.1/B
C94	0.1/B
C96	0.1/B

D1	1S3356
D2	1S3356
D3	1SV201-4
D4	1SV201-4
D6	DAN235K
D9	1SV201-4
D11	1S3355
D12	1S3355
D14	1SV201-4
D21	1S5184
D23	KV-1450 TL00
D24	1SV201-4
D26	1S3356
D33	1S3226

IC2	NJM2070H
IC4	NJM2902V
IC6	TK11806H
IC7	TK11900H
IC8	L78M07T-TL

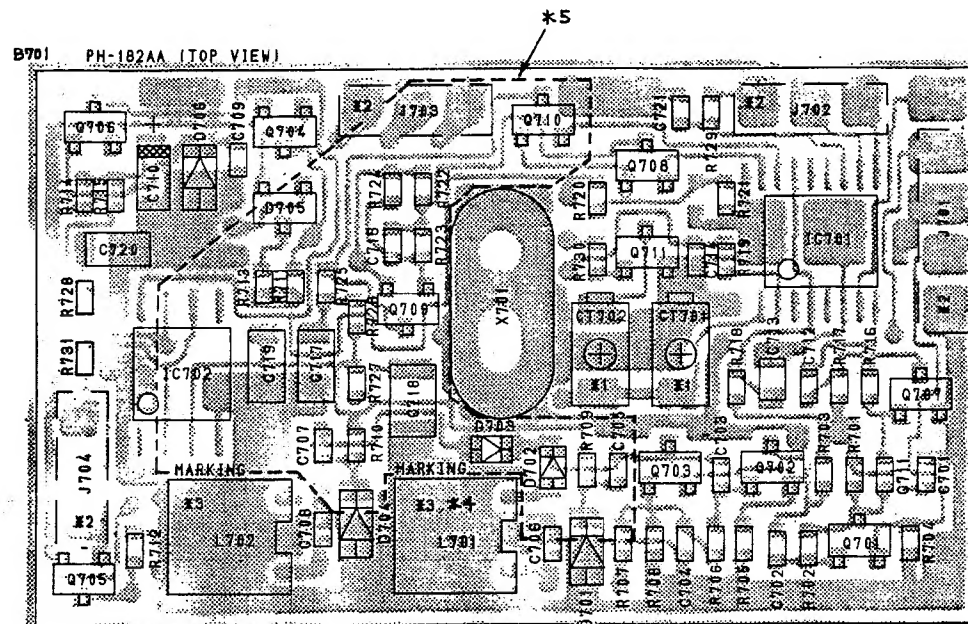
Q1	2SC3127
Q2	2SC3704
Q6	2SC3121
Q7	2SC2712-Y
Q9	DTC114EK

J4	PG-177 271
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NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM, M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)

DESIGN BY	DRAWN BY	UNIDEN NO.	MODEL NO.
94.9.20	94.9.20	UB-251Z	COM213
NAGAI	NAGAI	TITLE MAIN PCB	
CHECK BY	APPRO BY	PARTS ASS'Y BOTTOM VIEW	
	94.9.21	DRAWING NO.	
	MSK	E22-11267	
REV. NO.		UNIDEN CORP.	



C701	0.022/B
C702	0.001/B
C703	1.5P/CK
C704	0.001/B
C705	27P/CH
C706	0.001/B
C707	330P/CH
C708	0.022/B
C709	0.001/B
C710	25V1(T)C-228
C711	100P/CH
C712	0.001/B
C713	0.1/B (2125)
C714	39P/CH
C715	10P/CH
C717	0.0047/P50V(C-279)
C718	0.1/P 16V (C-264)
C719	0.0047/P50V(C-279)
C720	1/F 25V(3216)
C721	0.001/B

R701	100
R702	18K
R703	330
R704	560
R705	560
R706	2.7K
R707	3.9K
R708	2.7K
R709	10K
R710	1.8K
R711	6.8K
R712	6.8K
R713	68K
R714	15K
R715	10
R716	68K
R717	100
R718	100
R719	1K
R720	33K
R721	15K
R722	10K
R723	220K
R724	22K
R725	15K
R726	15K
R727	22K
R728	470
R729	10K
R730	4.7K
R731	10K

IC701	SM5158AM
IC702	TLC271CD

L701	LF253
L702	LF260

R701	100
R702	18K
R703	330
R704	560
R705	560
R706	2.7K
R707	3.9K
R708	2.7K
R709	10K
R710	1.8K
R711	6.8K
R712	6.8K
R713	68K
R714	15K
R715	10
R716	68K
R717	100
R718	100
R719	1K
R720	33K
R721	15K
R722	10K
R723	220K
R724	22K
R725	15K
R726	15K
R727	22K
R728	470
R729	10K
R730	4.7K
R731	10K

C715	10P/CH
C717	0.0047/P50V(C-279)
C718	0.1/P 16V (C-264)
C719	0.0047/P50V(C-279)
C720	1/F 25V(3216)
C721	0.001/B

R701	100
R702	18K
R703	330
R704	560
R705	560
R706	2.7K
R707	3.9K
R708	2.7K
R709	10K
R710	1.8K
R711	6.8K
R712	6.8K
R713	68K
R714	15K
R715	10
R716	68K
R717	100
R718	100
R719	1K
R720	33K
R721	15K
R722	10K
R723	220K
R724	22K
R725	15K
R726	15K
R727	22K
R728	470
R729	10K
R730	4.7K
R731	10K

IC701	SM5158AM
IC702	TLC271CD

L701	LF253
L702	LF260

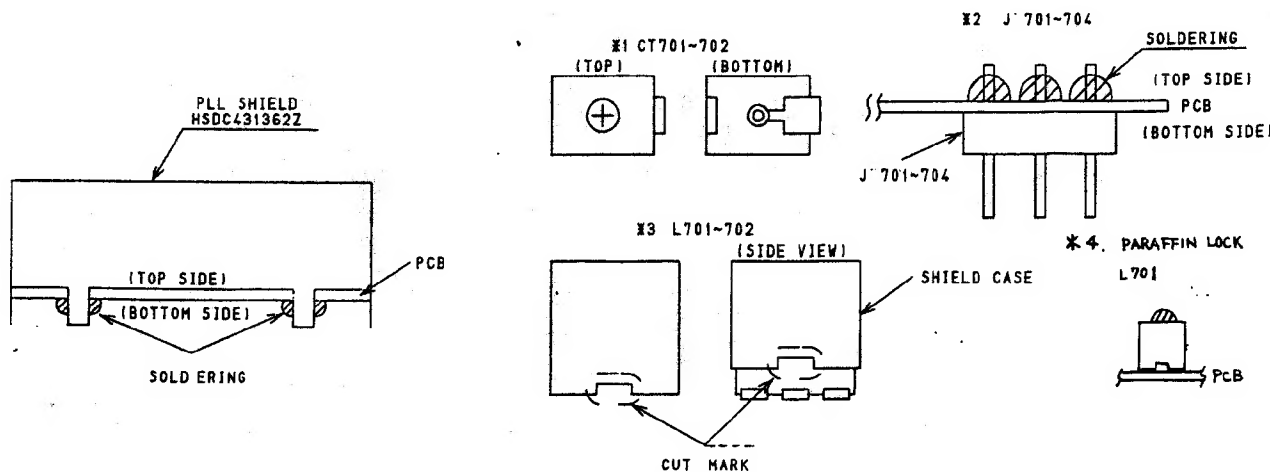
Q701	2SC3121
Q702	2SC3121
Q703	2SC3121
Q704	2SA1162-Y
Q705	DTA143XK
Q706	2SC2712-Y
Q707	2SC3121
Q708	2SC3121-T5L
Q709	2SA1162-Y
Q710	2SC3121-T5L
Q711	2SC2712-Y

D701	1SV201-4
D702	1SS356
D703	1SS356
D704	1SV201-4
D705	1SS184
D706	HZK4BLL

J 701	JK632 (5P)
J 702	JK632 (3P)
J 703	JK632 (3P)
J 704	JK632 (3P)

CT701	20P CT-093
CT702	20P CT-093

CT701	20P CT-093
CT702	20P CT-093



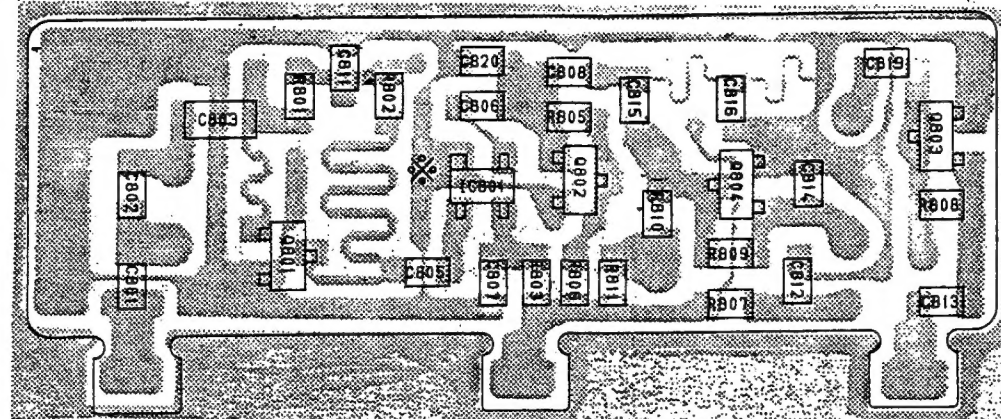
*5. COAT WITH ELECTRICAL PARTS PROTECTOR THE PARTS COVERED BY THE AREA INSCRIBED.

NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM, M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/16W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE CH UNLESS OTHERWISE NOTED.

DESIGN BY	DRAWN BY	UNIDEN NO.	MODEL NO.
94.10.17	94.7.14	UB-251Z	COM 213
CHECK BY	APPRO. BY	TITLE	
NAGA1	MINE	PLL PCB	
94.10.21	94.10.2	PARTS ASSEMBLY TOP VIEW	
ABE	MSK	DRAWING NO.	E23-11266
REV. NO.			UNIDEN CORP.

PH-140AB 800MHz PCB (BOT VIEW)



CHECK ORIENTATION OF IC801 — ☼

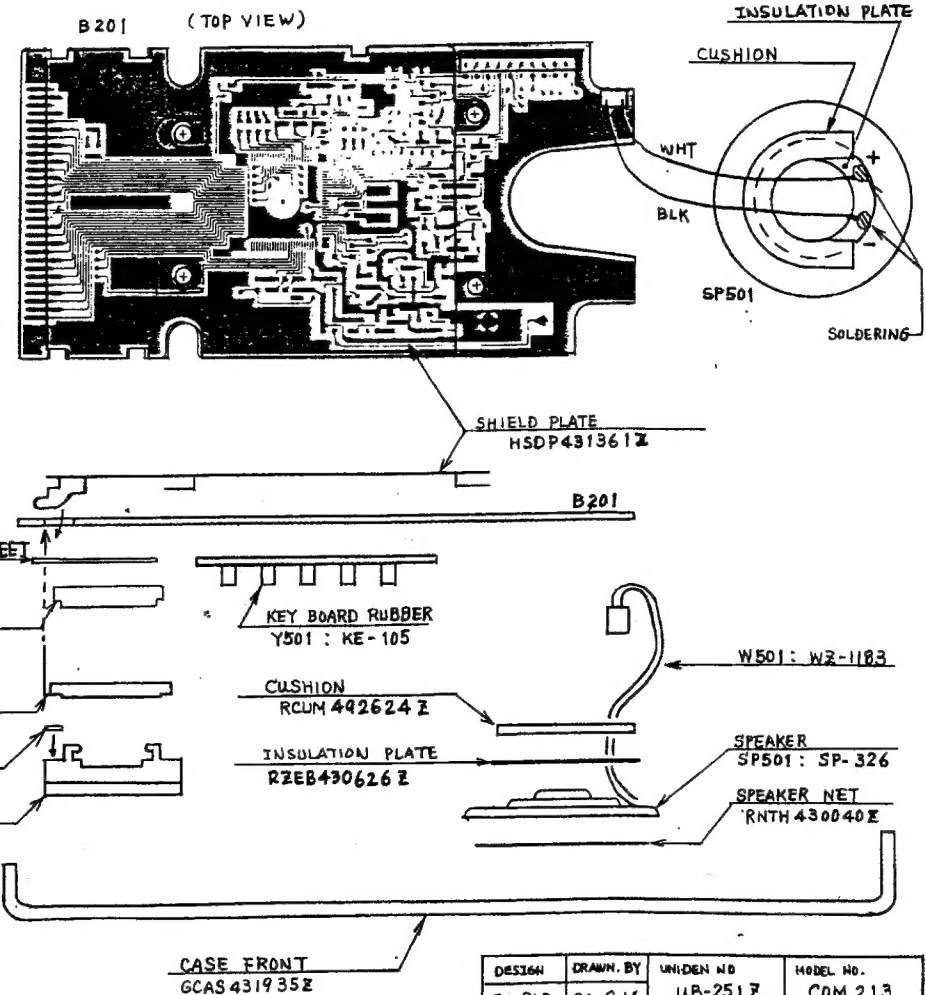
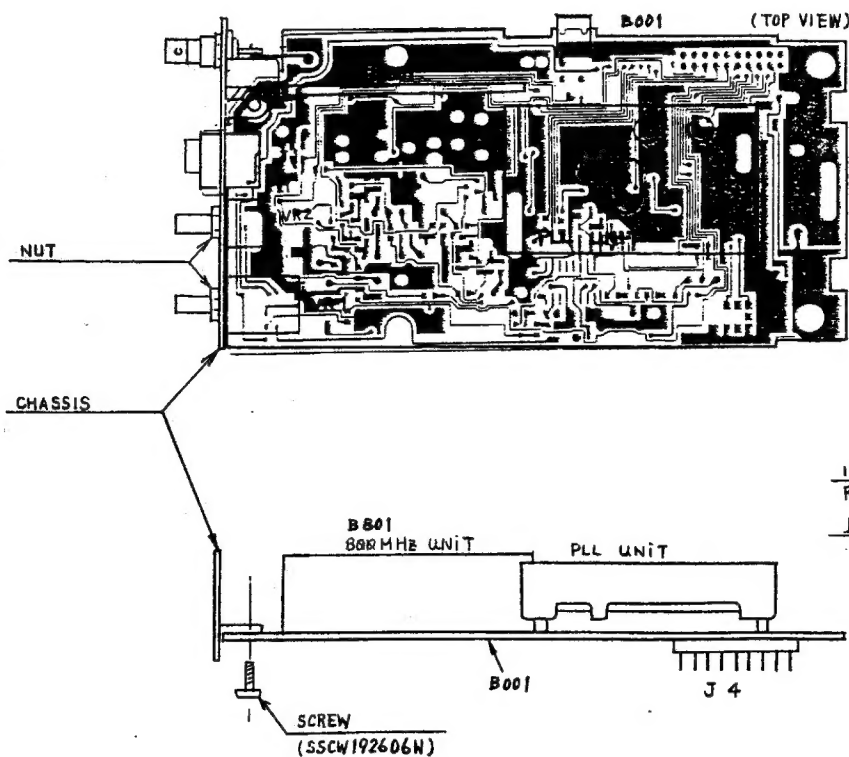
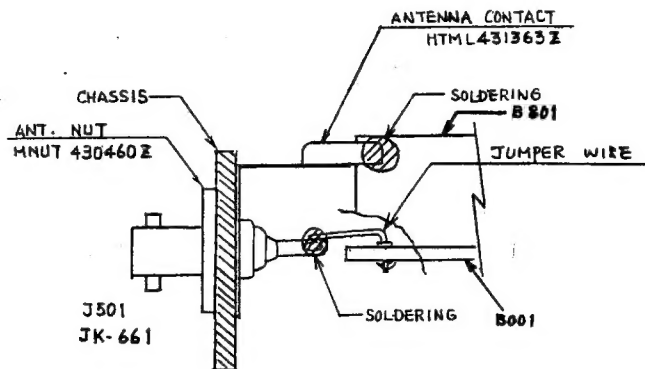
[illegible][illegible]

Q801	2SC3764
Q802	2SC3764
Q803	2SC3121
Q804	2SC3764

NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED.
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED.
(P=MICRO-MICRO FARAD)

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
'92.10.19	'94.2.17	UB-251Z	COM213
Y. TAKA	NORIE S	TITLE 800MHZ PCB	
CHECK BY	APPROV BY	PARTS ASS'Y BOT VIEW	
94.10.17	94.10.21	DRAWING NO.	
NAGAI	MSK	E23-11264	
REV. NO.			UNIDEN PHILS. INC.



DESIGN	DRAWN BY	UNIDEN NO	MODEL NO.
94.8.2	94.9.14	UB-251Z	COM 213
NAGAI	NAGAI	TITLE	
CHECK BY		WIRING DIAGRAM	
94.10.18	94.10.21	DRAWING NO.	
ABE	MSK	E33-3581	
REV. NO.		UNIDEN CORP.	